## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/541,892
Source:	PCT.
Date Processed by STIC:	06/06/2001
-	

# ENTERED



PCT

RAW SEQUENCE LISTING DATE: 06/06/2006
PATENT APPLICATION: US/10/541,892 TIME: 10:28:05

Input Set : A:\21269P.TXT

Output Set: N:\CRF4\06062006\J541892.raw

```
4 <110> APPLICANT: Mosley, Ralph T.
             McKeever, Brian Michael
             Berger, Joel P.
     8 <120> TITLE OF INVENTION: PEROXISOME PROLIFERATOR-ACTIVATED
             RECEPTOR
    11 <130> FILE REFERENCE: 21269P
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/541,892
C--> 13 <141> CURRENT FILING DATE: 2005-07-08
     13 <150> PRIOR APPLICATION NUMBER: PCT/US2004/001221
     14 <151> PRIOR FILING DATE: 2004-01-16
     16 <150> PRIOR APPLICATION NUMBER: 60/441,836
     17 <151> PRIOR FILING DATE: 2003-01-22
    19 <160> NUMBER OF SEQ ID NOS: 12
    21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    23 <210> SEQ ID NO: 1
    24 <211> LENGTH: 468
    25 <212> TYPE: PRT
    26 <213> ORGANISM: Human
    28 <400> SEQUENCE: 1
    29 Met Val Asp Thr Glu Ser Pro Leu Cys Pro Leu Ser Pro Leu Glu Ala
    31 Gly Asp Leu Glu Ser Pro Leu Ser Glu Glu Phe Leu Gln Glu Met Gly
    33 Asn Ile Gln Glu Ile Ser Gln Ser Ile Gly Glu Asp Ser Ser Gly Ser
                                    40
    35 Phe Gly Phe Thr Glu Tyr Gln Tyr Leu Gly Ser Cys Pro Gly Ser Asp
                                55
    37 Gly Ser Val Ile Thr Asp Thr Leu Ser Pro Ala Ser Ser Pro Ser Ser
                                                75
    39 Val Thr Tyr Pro Val Val Pro Gly Ser Val Asp Glu Ser Pro Ser Gly
                        85
                                            90
    41 Ala Leu Asn Ile Glu Cys Arg Ile Cys Gly Asp Lys Ala Ser Gly Tyr
                    100
                                        105
    43 His Tyr Gly Val His Ala Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg
               115
                                    120
    45 Thr Ile Arg Leu Lys Leu Val Tyr Asp Lys Cys Asp Arg Ser Cys Lys
    47 Ile Gln Lys Lys Asn Arg Asn Lys Cys Gln Tyr Cys Arg Phe His Lys
                            150
                                                155
    49 Cys Leu Ser Val Gly Met Ser His Asn Ala Ile Arg Phe Gly Arg Met
                                            170
    51 Pro Arg Ser Glu Lys Ala Lys Leu Lys Ala Glu Ile Leu Thr Cys Glu
                    180
                                        185
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53 His Asp Ile Glu Asp Ser Glu Thr Ala Asp Leu Lys Ser Leu Ala Lys 195 200 55 Arg Ile Tyr Glu Ala Tyr Leu Lys Asn Phe Asn Met Asn Lys Val Lys 215 57 Ala Arg Val Ile Leu Ser Gly Lys Ala Ser Asn Asn Pro Pro Phe Val 230 235 59 Ile His Asp Met Glu Thr Leu Cys Met Ala Glu Lys Thr Leu Val Ala 245 250 61 Lys Leu Val Ala Asn Gly Ile Gln Asn Lys Glu Ala Glu Val Arg Ile 265 63 Phe His Cys Cys Gln Cys Thr Ser Val Glu Thr Val Thr Glu Leu Thr 280 285 65 Glu Phe Ala Lys Ala Ile Pro Gly Phe Ala Asn Leu Asp Leu Asn Asp 295 67 Gln Val Thr Leu Leu Lys Tyr Gly Val Tyr Glu Ala Ile Phe Ala Met 310 315 69 Leu Ser Ser Val Met Asn Lys Asp Gly Met Leu Val Ala Tyr Gly Asn 330 71 Gly Phe Ile Thr Arg Glu Phe Leu Lys Ser Leu Arg Lys Pro Phe Cys 340 345 73 Asp Ile Met Glu Pro Lys Phe Asp Phe Ala Met Lys Phe Asn Ala Leu 360 75 Glu Leu Asp Asp Ser Asp Ile Ser Leu Phe Val Ala Ala Ile Ile Cys 375 380 77 Cys Gly Asp Arg Pro Gly Leu Leu Asn Val Gly His Ile Glu Lys Met 390 395 79 Gln Glu Gly Ile Val His Val Leu Arg Leu His Leu Gln Ser Asn His 405 410 81 Pro Asp Asp Ile Phe Leu Phe Pro Lys Leu Gln Lys Met Ala Asp 420 425 83 Leu Arg Gln Leu Val Thr Glu His Ala Gln Leu Val Gln Ile Ile Lys 440 85 Lys Thr Glu Ser Asp Ala Ala Leu His Pro Leu Leu Gln Glu Ile Tyr 455 460 450 87 Arg Asp Met Tyr 91 <210> SEQ ID NO: 2 92 <211> LENGTH: 441 93 <212> TYPE: PRT 94 <213> ORGANISM: Human 96 <400> SEQUENCE: 2 97 Met Glu Gln Pro Gln Glu Glu Ala Pro Glu Val Arg Glu Glu Glu Glu 99 Lys Glu Glu Val Ala Glu Ala Glu Gly Ala Pro Glu Leu Asn Gly Gly 20 25 101 Pro Gln His Ala Leu Pro Ser Ser Ser Tyr Thr Asp Leu Ser Arg Ser 40 103 Ser Ser Pro Pro Ser Leu Leu Asp Gln Leu Gln Met Gly Cys Asp Gly 104 50 55

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Input Set : A:\21269P.TXT

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105 Ala Ser Cys Gly Ser Leu Asn Met Glu Cys Arg Val Cys Gly Asp Lys 70 107 Ala Ser Gly Phe His Tyr Gly Val His Ala Cys Glu Gly Cys Lys Gly 109 Phe Phe Arg Arg Thr Ile Arg Met Lys Leu Glu Tyr Glu Lys Cys Glu 100 105 111 Arg Ser Cys Lys Ile Gln Lys Lys Asn Arg Asn Lys Cys Gln Tyr Cys 115 120 113 Arg Phe Gln Lys Cys Leu Ala Leu Gly Met Ser His Asn Ala Ile Arg 135 115 Phe Gly Arg Met Pro Glu Ala Glu Lys Arg Lys Leu Val Ala Gly Leu 150 155 117 Thr Ala Asn Glu Gly Ser Gln Tyr Asn Pro Gln Val Ala Asp Leu Lys 165 170 119 Ala Phe Ser Lys His Ile Tyr Asn Ala Tyr Leu Lys Asn Phe Asn Met 180 185 121 Thr Lys Lys Ala Arg Ser Ile Leu Thr Gly Lys Ala Ser His Thr 195 200 123 Ala Pro Phe Val Ile His Asp Ile Glu Thr Leu Trp Gln Ala Glu Lys 215 125 Gly Leu Val Trp Lys Gln Leu Val Asn Gly Leu Pro Pro Tyr Lys Glu 230 235 127 Ile Ser Val His Val Phe Tyr Arg Cys Gln Cys Thr Thr Val Glu Thr 245 250 129 Val Arg Glu Leu Thr Glu Phe Ala Lys Ser Ile Pro Ser Phe Ser Ser 260 265 131 Leu Phe Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu 275 280 133 Ala Ile Phe Ala Met Leu Ala Ser Ile Val Asn Lys Asp Gly Leu Leu 290 295 300 135 Val Ala Asn Gly Ser Gly Phe Val Thr Arg Glu Phe Leu Arg Ser Leu 310 137 Arg Lys Pro Phe Ser Asp Ile Ile Glu Pro Lys Phe Glu Phe Ala Val 325 330 139 Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Leu Phe Ile 345 141 Ala Ala Ile Ile Leu Cys Gly Asp Arg Pro Gly Leu Met Asn Val Pro 360 143 Arg Val Glu Ala Ile Gln Asp Thr Ile Leu Arg Ala Leu Glu Phe His 375 145 Leu Gln Ala Asn His Pro Asp Ala Gln Tyr Leu Phe Pro Lys Leu Leu 390 395 147 Gln Lys Met Ala Asp Leu Arg Gln Leu Val Thr Glu His Ala Gln Met 405 410 149 Met Gln Arg Ile Lys Lys Thr Glu Thr Glu Thr Ser Leu His Pro Leu 425 151 Leu Gln Glu Ile Tyr Lys Asp Met Tyr 435 155 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING DATE: 06/06/2006
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Input Set : A:\21269P.TXT

Output Set: N:\CRF4\06062006\J541892.raw

156 <211> LENGTH: 477 157 <212> TYPE: PRT 158 <213> ORGANISM: Human 160 <400> SEQUENCE: 3 161 Met Thr Met Val Asp Thr Glu Met Pro Phe Trp Pro Thr Asn Phe Gly 163 Ile Ser Ser Val Asp Leu Ser Val Met Glu Asp His Ser His Ser Phe 20 25 165 Asp Ile Lys Pro Phe Thr Thr Val Asp Phe Ser Ser Ile Ser Thr Pro 40 167 His Tyr Glu Asp Ile Pro Phe Thr Arg Thr Asp Pro Val Val Ala Asp 55 169 Tyr Lys Tyr Asp Leu Lys Leu Gln Glu Tyr Gln Ser Ala Ile Lys Val 171 Glu Pro Ala Ser Pro Pro Tyr Tyr Ser Glu Lys Thr Gln Leu Tyr Asn 85 90 173 Lys Pro His Glu Glu Pro Ser Asn Ser Leu Met Ala Ile Glu Cys Arg 105 175 Val Cys Gly Asp Lys Ala Ser Gly Phe His Tyr Gly Val His Ala Cys 176 115 120 177 Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr Ile Arg Leu Lys Leu Ile 178 135 179 Tyr Asp Arg Cys Asp Leu Asn Cys Arg Ile His Lys Lys Ser Arg Asn 150 181 Lys Cys Gln Tyr Cys Arg Phe Gln Lys Cys Leu Ala Val Gly Met Ser 165 170 183 His Asn Ala Ile Arg Phe Gly Arg Met Pro Gln Ala Glu Lys Glu Lys 180 185 185 Leu Leu Ala Glu Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser 195 200 187 Ala Asp Leu Arg Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys 215 189 Ser Phe Pro Leu Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys 230 235 191 Thr Thr Asp Lys Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met 245 250 193 Met Gly Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu 260 265 195 Gln Ser Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg 280 197 Ser Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro 295 199 Gly Phe Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr 200 305 310 315 201 Gly Val His Glu Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn Lys 330 203 Asp Gly Val Leu Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe 345 205 Leu Lys Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe

DATE: 06/06/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/541,892 TIME: 10:28:05 Input Set : A:\21269P.TXT Output Set: N:\CRF4\06062006\J541892.raw 355 360 207 Glu Phe Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu 375 209 Ala Ile Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu 390 395 211 Leu Asn Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala 410 213 Leu Glu Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe 425 215 Ala Lys Leu Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu 435 440 217 His Val Gln Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser 455 219 Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr 470 223 <210> SEQ ID NO: 4 224 <211> LENGTH: 275 225 <212> TYPE: PRT 226 <213> ORGANISM: Artificial Sequence 228 <220> FEATURE:

#### 229 <223> OTHER INFORMATION: mutated PPAR ligand binding domain W--> 231 <221> NAME/KEY: VARIANT

232 <222> LOCATION: 271

233 <223> OTHER INFORMATION: Xaa = alanine, valine, leucine, isoleucine, 234 proline, tryptophan, phenylalanine, methionine,

235 histidine, asparagine, or glutamine

### W--> 237 <400> 4

220 465

206

238 Gln Leu Asn Pro Glu Ser Ala Asp Leu Arq Ala Leu Ala Lys His Leu 10 240 Tyr Asp Ser Tyr Ile Lys Ser Phe Pro Leu Thr Lys Ala Lys Ala Arg 20 25 242 Ala Ile Leu Thr Gly Lys Thr Thr Asp Lys Ser Pro Phe Val Ile Tyr 244 Asp Met Asn Ser Leu Met Met Gly Glu Asp Lys Ile Lys Phe Lys His 246 Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe 247 65 248 Gln Gly Cys Gln Phe Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu 250 Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln 105 252 Val Thr Leu Leu Lys Tyr Gly Val His Glu Ile Ile Tyr Thr Met Leu 120 254 Ala Ser Leu Met Asn Lys Asp Gly Val Leu Ile Ser Glu Gly Gln Gly 135 140 256 Phe Met Thr Arg Glu Phe Leu Lys Ser Leu Arg Lys Pro Phe Gly Asp 150 258 Phe Met Glu Pro Lys Phe Glu Phe Ala Val Lys Phe Asn Ala Leu Glu 259 165 170

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/06/2006 PATENT APPLICATION: US/10/541,892 TIME: 10:28:06

Input Set : A:\21269P.TXT

Output Set: N:\CRF4\06062006\J541892.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 271

VERIFICATION SUMMARY

DATE: 06/06/2006

PATENT APPLICATION: US/10/541,892

TIME: 10:28:06

Input Set : A:\21269P.TXT

Output Set: N:\CRF4\06062006\J541892.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:231 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:237 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4

L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:256